BELL SYSTEM PRACTICES
Outside Plant Construction and Maintenance

SECTION G56.612.1
Issue 1, August, 1954
AT&T Co Standard

CABLE SPLICING — BURIED
JUNCTION WITH OTHER PLANT

Contents **Page**

1. GENERAL

1.01 This section describes the treatment of buried cable at junctions with other types of outside cable plant.

1.02 This section has been issued to include information on the N-type terminal.

1.03 Bond between tape armor and the cable sheath as outlined in the sections covering bonding of buried cable.

2. JUNCTION—BURIED AND UNDERGROUND CABLE

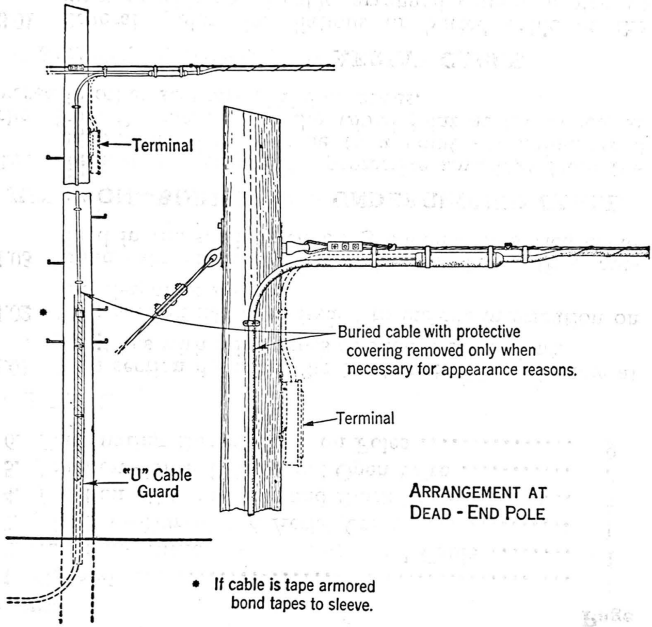
2.01 Remove and secure the protective coverings from the end of the buried cable to a point approximately 3 inches from the location of the wiped joint at the splice, as covered in other sections of the practices.

3. JUNCTION—BURIED AND AERIAL CABLE

3.01 Several typical installations of buried cable at the junction with aerial cable, arranged without protective cable, are described and illustrated in the following paragraphs.

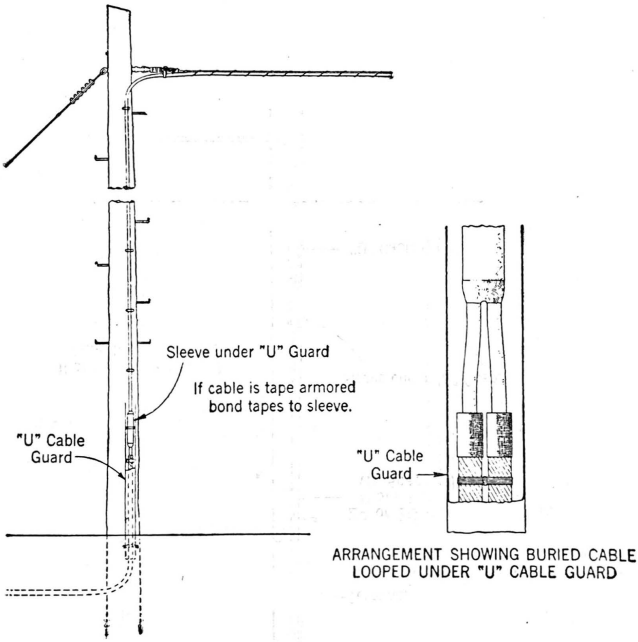
3.02 The splice shown under the "U" guard can be made in a horizontal position if the splice is made before the cable on the pole is permanently clamped in place.

3.03 The splicing arrangement used where a terminal is installed at the junction of the buried and aerial cable, and where the aerial cable is dead-ended at the pole are illustrated in the following sketch.



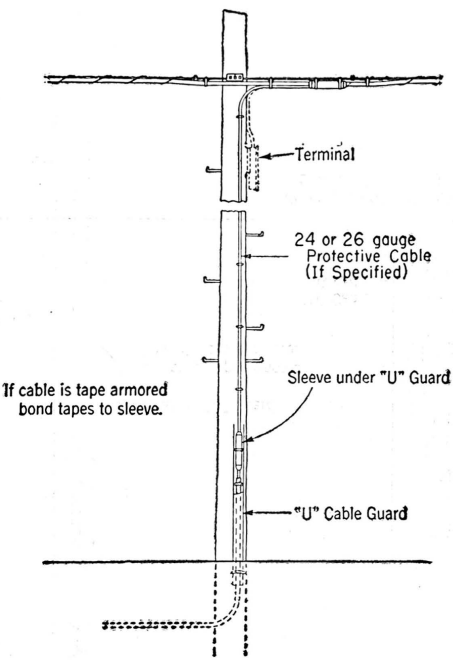
ARRANGEMENT AT DEAD - END POLE

3.04 If the aerial cable ends at the junction with the buried cable, the aerial cable can be carried down the pole and the splice made under the "U" guard. A similar splicing arrangement can be followed where the buried cable is looped at the pole, as shown. The splice can be made in a horizontal position before the cable is permanently clamped to the pole.



ARRANGEMENT SHOWING BURIED CABLE LOOPED UNDER "U" CABLE GUARD

3.05 If 24- or 26-gauge cable is required between the aerial and buried cables for protection, it should be installed as illustrated below.

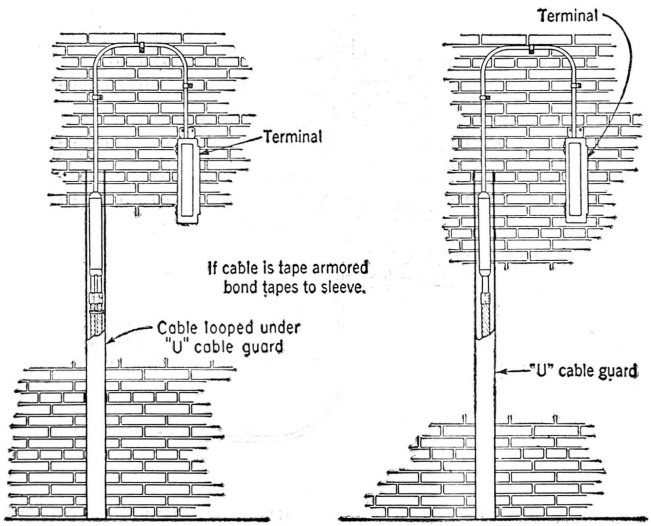


3.06 If an insulating joint is required at the junction pole, it will be specified on the detail plans. The sheath opening can be made in either the buried cable, aerial cable or protective cable as specified in the detail plans.

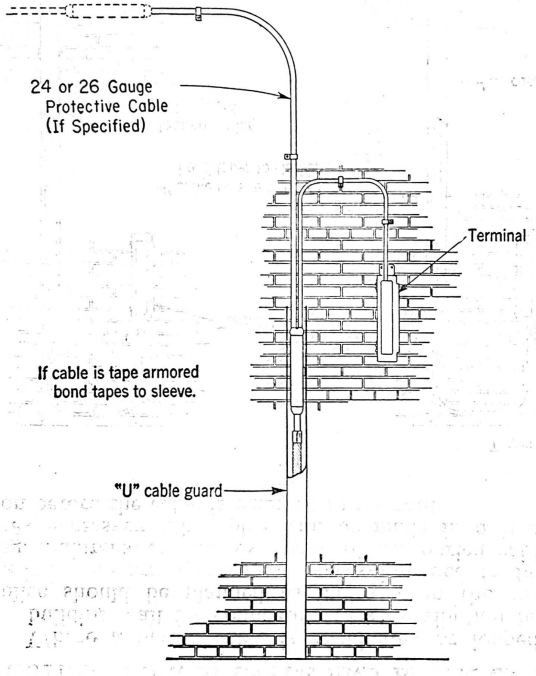
3.07 With buried alpeth cable, the insulating joint can be made in the splice. The method of making this joint is covered in the sections of the practices dealing with insulating joints.

4. JUNCTION—BURIED CABLE AND BLOCK CABLE

4.01 Where a buried cable is terminated or looped on a building wall for connection to a distribution terminal, the splice should be planned as indicated in the following illustration. The arrangement shown is intended to facilitate splicing, maintenance, and extension of the buried cable if it becomes necessary. The splice can be made in a horizontal position before the cable is clamped to the wall.

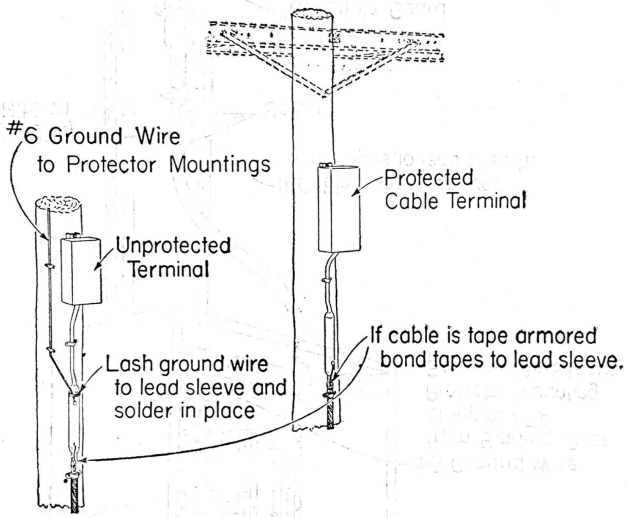


4.02 The splicing arrangement with or without a terminal, where the buried cable is extended along the building wall to additional terminals, is illustrated. Protective cable if required between the buried cable and the cable on the building wall can be placed as shown.

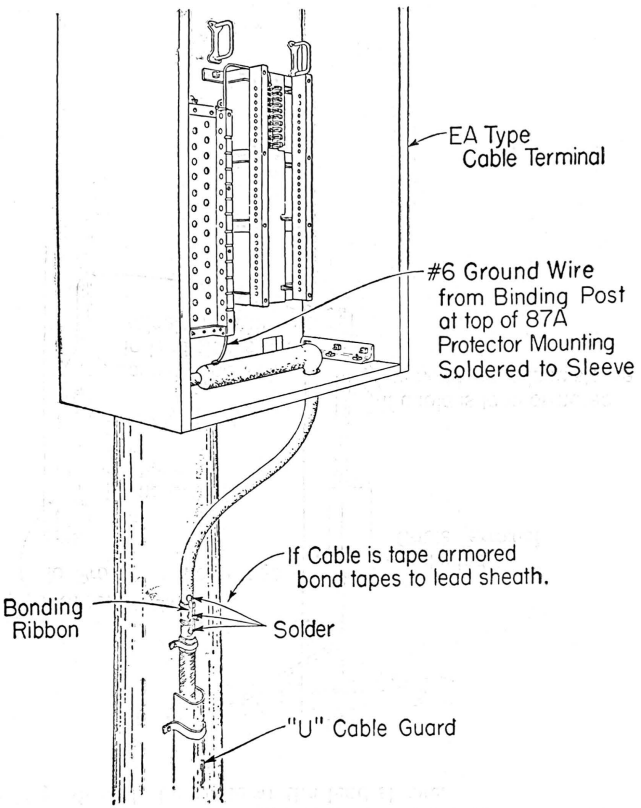


5. JUNCTION—BURIED CABLE AND OPEN WIRE

5.01 The following drawing illustrates the arrangement of the cable and the protected terminal at the junction of a buried cable and open wire. Where an unprotected terminal is used, as shown in the lowert left-hand corner of the ilustration, the connection of the protector ground wire to the sheath should preferably be made at the lead sleeve.

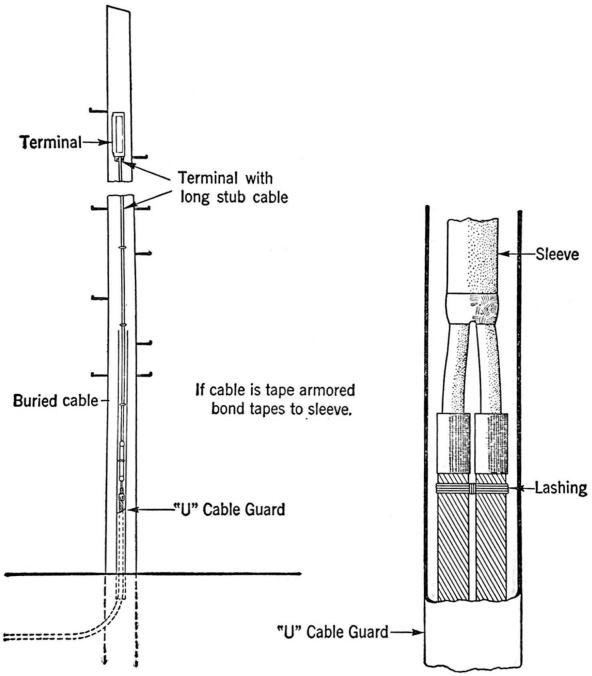


5.02 The following drawing illustrates the arrangement of the cable and the lead sleeve in an EA type terminal at the junction of a buried cable and open wire.



6. TERMINATING BURIED CABLE ON POLES

6.01 In some instances the buried cable may be terminated or looped on a pole for connection to a distribution terminal where there is no aerial cable or open wire. The general arrangement of the cable and splice at such points is illustrated in the following sketch.



ARRANGEMENT SHOWING CABLE LOOPED UNDER "U" GUARD.